WHAT IS CLAIMED IS:

- 1. A pointing device comprising:
 - a printed circuit board;
- a plurality of magnetic sensors placed on said printed circuit board;

an elastic member mounted on said printed circuit board to constitute a hollow for enabling sway in any desired direction;

- a rigid pushing member placed on said elastic member;
 and
 - a magnet mounted on said elastic member, wherein said plurality of magnetic sensors detect magnetic flux density changes caused by a sway of said magnet due to elastic deformation of said elastic member.
 - 2. The pointing device as claimed in claim 1, wherein said pushing member has a top whose area is greater than an area of said magnet.

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- 3. The pointing device as claimed in claim 1, wherein said elastic member consists of a silicone resin.
- The pointing device as claimed in claim 1, wherein said
 magnet and said elastic member are replaced by a rubber magnet.

5. The pointing device as claimed in claim 1, wherein said magnetic sensors are placed symmetrically along X axis and Y axis on a plane, and said magnet is disposed at about a center of said magnetic sensors.

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- 6. The pointing device as claimed in claim 1, further comprising a switch on an elastic member side surface of said printed circuit board.
- 7. The pointing device as claimed in claim 6, further comprising a protrusion formed at a portion facing said switch on said elastic member, wherein said protrusion is provided for depressing said switch.
- 15 8. The pointing device as claimed in claim 6, wherein said switch is a tactile switch.
 - 9. The pointing device as claimed in claim 1, wherein said elastic member and said magnet are glued at only a center of said magnet.
 - 10. The pointing device as claimed in claim 1, wherein said elastic member has a hollow that is made in such a manner that a portion where said magnet is placed and its neighborhood are made thinner than a remaining portion where said magnet is not placed.

- 11. The pointing device as claimed in claim 1, wherein said elastic member comprises at least one projection toward said printed circuit board in said hollow.
- 5 12. The pointing device as claimed in claim 11, wherein said projection is placed near an outer edge of said hollow.
- 13. The pointing device as claimed in claim 1, wherein said magnet is displaceable in a direction perpendicular to said printed circuit board.
 - 14. The pointing device as claimed in claim 1, wherein said elastic member has at least one bend that forms said hollow.

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- 15. The pointing device as claimed in claim 14, wherein said bend includes a U grooved undercut.
- 16. The pointing device as claimed in claim 15, wherein 20 said U grooved undercut has a depth less than a thickness of said elastic member.
 - 17. The pointing device as claimed in claim 14, wherein said bend of said elastic member has a chamfer or rounding.

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18. The pointing device as claimed in claim 1, to which a manipulation adapter is fitted, said manipulation adapter

comprising:

a second elastic member mounted on an edge of said elastic member or on said pushing member;

a manipulation member mounted on said second elastic member; and

a second magnet mounted on said second elastic member or said manipulation member.

- 19. The pointing device as claimed in claim 18, wherein said second elastic member includes a second hollow to enable said manipulation member to be swayed in any desired direction; and said second magnet is mounted on said second hollow side.
- 15 20. The pointing device as claimed in claim 1, to which a manipulation adapter is fitted, said manipulation adapter comprising:

a hold-down member mounted on an edge of said elastic member or on said pushing member;

a manipulation member whose movement is restrained by said hold-down member; and

a second magnet mounted on said manipulation member.

- 21. A pointing device comprising:
- 25 a printed circuit board;

a plurality of magnetic sensors placed on said printed circuit board;

an elastic member mounted on said printed circuit board to constitute a hollow for enabling sway in any desired direction:

a rigid pushing member placed on said elastic member to constitute said hollow together with said elastic member; and a magnet placed on said pushing member, wherein

said plurality of magnetic sensors detect magnetic flux density changes caused by a sway of said magnet due to elastic deformation of said elastic member.

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- 22. The pointing device as claimed in claim 21, wherein said pushing member has a top whose area is greater than an area of said magnet.
- 15 23. The pointing device as claimed in claim 21, wherein said elastic member consists of a silicone resin.
 - 24. The pointing device as claimed in claim 21, wherein said magnetic sensors are placed symmetrically along X axis and Y axis on a plane, and said magnet is disposed at about a center of said magnetic sensors.
 - 25. The pointing device as claimed in claim 21, further comprising a switch on an elastic member side surface of said printed circuit board.
 - 26. The pointing device as claimed in claim 25, further

comprising a protrusion formed at a portion facing said switch on said elastic member, wherein said protrusion is provided for depressing said switch.

- 5 27. The pointing device as claimed in claim 25, wherein said switch is a tactile switch.
 - 28. The pointing device as claimed in claim 21, wherein said magnet is displaceable in a direction perpendicular to said printed circuit board.
 - 29. The pointing device as claimed in claim 21, wherein said elastic member has at least one bend that forms said hollow.

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- 30. The pointing device as claimed in claim 29, wherein said bend includes a U grooved undercut.
- 31. The pointing device as claimed in claim 30, wherein said U grooved undercut has a depth less than a thickness of said elastic member.
 - 32. The pointing device as claimed in claim 29, wherein said bend of said elastic member has a chamfer or rounding.

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33. The pointing device as claimed in claim 21, to which a manipulation adapter is fitted, said manipulation adapter

comprising:

a second elastic member mounted on an edge of said elastic member or on said pushing member;

a manipulation member mounted on said second elastic member; and

a second magnet mounted on said second elastic member or said manipulation member.

- 34. The pointing device as claimed in claim 33, wherein said second elastic member includes a second hollow to enable said manipulation member to be swayed in any desired direction; and said second magnet is mounted on said second hollow side.
- 15 35. The pointing device as claimed in claim 21, to which a manipulation adapter is fitted, said manipulation adapter comprising:

a hold-down member mounted on an edge of said elastic member or on said pushing member;

a manipulation member whose movement is restrained by said hold-down member; and

a second magnet mounted on said manipulation member.